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1-44284

CAFES

From: Lockard, Jon
Sent: Friday, February 04, 2005 3:59 PM
To: STIC-Biotech/ChemLib
Subject: INTERFERENCE Sequence Search for: 10/071,370

Examiner: Jon Lockard (4C31) AU 1647
Serial Number: 10/071,370

Interference search of SEQ ID NO: 3 against the following nucleic acid databases:

-Pending
-Issued

NA-477

Interference search of SEQ ID NO: 4 against the following protein databases:

-Pending
-Issued

AA-158

Please deliver it to my mailbox @ Remson 4C70

**Thank you,
JML
Examiner # 80265**

Mej

Jon M. Lockard
Art Unit 1647
(571) 272-2717
REM 4C31
Mail Box: REM 4C70

STAFF USE ONLY

Searcher: _____
Searcher Phone: 2-_____
Date Searcher Picked up: _____
Date Completed: _____
Searcher Prep/Rev. Time: _____
Online Time: _____

Type of Search

NA Sequence: # _____
AA Sequence: # _____
Structure: # _____
Bibliographic: _____
Litigation: _____
Patent Family: _____
Other: _____

Vendors and cost where applicable

STN: _____
DIALOG: _____
QUESTEL/ORBIT: _____
LEXIS/NEXIS: _____
SEQUENCE SYSTEM: _____
WWW/Internet: _____
Other(Specify): _____

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: February 22, 2005, 20:07:37 ; Search time 145 Seconds
(without alignments)
5382.786 Million cell updates/sec

Title: US-10-071-370A-3
Perfect score: 477
Sequence: 1 atgctggccatgaagctgtt.....ctgaggaacccacactgtga 477

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
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6: /cgn2_6/ptodata/1/ina/backfile1.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	477	100.0	477	3	US-08-586-039B-38
2	477	100.0	477	4	US-09-699-769-38
3	414	86.8	417	3	US-08-586-039B-36
4	414	86.8	417	4	US-09-699-769-36
5	230.2	48.3	513	3	US-08-586-039B-44
6	230.2	48.3	513	4	US-09-699-769-44
7	229.8	48.2	465	3	US-08-586-039B-40
8	229.8	48.2	465	4	US-09-699-769-40
9	213.6	44.8	1643	4	US-09-949-016-1730
10	213.6	44.8	1645	2	US-08-039-297B-1
11	213.6	44.8	1645	4	US-09-949-016-381
12	213.2	44.7	450	3	US-08-586-039B-46
13	213.2	44.7	450	4	US-09-699-769-46
C 14	117	24.5	601	4	US-09-949-016-25532
C 15	117	24.5	601	4	US-09-949-016-59431
16	117	24.5	17730	4	US-09-949-016-12123
17	117	24.5	17731	4	US-09-949-016-13472
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19	108.8	22.8	677	4	US-09-449-249-3
20	108.8	22.8	677	5	PCT-US95-10973A-27
21	108.8	22.8	728	3	US-08-718-904-4
22	108.8	22.8	728	4	US-09-449-249-4
23	108.8	22.8	728	5	PCT-US95-10973A-28
24	107.2	22.5	495	4	US-09-037-983C-14
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26	107.2	22.5	516	3	US-09-392-932-7
27	107.2	22.5	516	4	US-09-574-708A-3

28	107.2	22.5	516	4	US-09-037-983C-1	Sequence 1, Appli
29	107.2	22.5	516	4	US-09-428-909A-1	Sequence 1, Appli
30	107.2	22.5	516	4	US-09-392-931-3	Sequence 3, Appli
31	107.2	22.5	545	4	US-09-244-583-1	Sequence 1, Appli
32	107.2	22.5	642	3	US-09-392-932-9	Sequence 9, Appli
33	107.2	22.5	642	4	US-09-574-708A-7	Sequence 7, Appli
34	107.2	22.5	642	4	US-09-392-931-7	Sequence 7, Appli
35	107.2	22.5	648	3	US-08-586-039B-48	Sequence 48, Appli
36	107.2	22.5	648	4	US-09-699-769-48	Sequence 48, Appli
37	107.2	22.5	665	4	US-09-244-583-29	Sequence 29, Appli
38	107.2	22.5	699	3	US-09-392-932-10	Sequence 10, Appli
39	107.2	22.5	699	4	US-09-574-708A-9	Sequence 9, Appli
40	107.2	22.5	699	4	US-09-392-931-9	Sequence 9, Appli
41	107.2	22.5	1195	6	5240848-6	Patent No. 5240848
42	107.2	22.5	1195	6	5240848-6	Patent No. 5240848
43	106	22.2	649	3	US-08-586-039B-34	Sequence 34, Appli
44	106	22.2	649	4	US-09-699-769-34	Sequence 34, Appli
45	105.6	22.1	426	4	US-09-884-050-1	Sequence 1, Appli

ALIGNMENTS

RESULT 1
US-08-586-039B-38
; Sequence 38, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/586,039B
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3905
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 38:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 477 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
US-08-586-039B-38

Query Match 100.0%; Score 477; DB 3; Length 477;
Best Local Similarity 100.0%; Pred. No. 7.5e-149;
Matches 477; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

TELEFAX: (732) 594-4720
INFORMATION FOR SEQ ID NO: 38:
SEQUENCE CHARACTERISTICS:
LENGTH: 477 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 38:
US-09-699-769-38
Query Match 100.0%; Score 477; DB 4; Length 477;
Best Local Similarity 100.0%; Pred. No. 7.5e-149;
Matches 477; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 ATGCTGGCCATGAAGCTGTTCACTTGGCTTCTTGTGAGTCCCTAGTGGGTTGGCTGTGCAC 60
Db 1 ATGCTGGCCATGAAGCTGTTCACTTGGCTTCTTGTGAGTCCCTAGTGGGTTGGCTGTGCAC 60
QY 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGTGCCTTTCAAT 120
Db 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGTGCCTTTCAAT 120
QY 121 GAAGTGTGGGCGCGAGCTACTGCGGCGCTAAAGACAGCCAAATGGAAGTGGTGCAGATGAA 180
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Db 241 GGCTGCTGTGGTGACGAGGCTGTGCACTGTGTGGCGCTAAAGACAGCCAAATCACTATG 300
QY 301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCTCT 360
Db 301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCTCT 360
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Db 361 CAGGATGTACTCTCGGAATGCGAGGCTATTCTGGAGACGACAAAGGCGAGAAAGGAGGAAA 420
QY 421 ACCAAGGGGAAGAGGAAAGCAAGCAAAAGCAAAACCCCAAGAGTGGAGATGACATTTCTCT 477
Db 421 ACCAAGGGGAAGAGGAAAGCAAGCAAAAGCAAAACCCCAAGAGTGGAGATGACATTTCTCT 477
RESULT 3
US-08-586-039B-36
; Sequence 36, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/699,769
; FILING DATE: 30-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/586,039
; FILING DATE: 16-JAN-1996
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (732) 594-3905

QY 1 ATGCTGGCCATGAAGCTGTTCACTTGGCTTCTTGTGAGTCCCTAGTGGGTTGGCTGTGCAC 60
Db 1 ATGCTGGCCATGAAGCTGTTCACTTGGCTTCTTGTGAGTCCCTAGTGGGTTGGCTGTGCAC 60
QY 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGTGCCTTTCAAT 120
Db 61 TCCAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGTGCCTTTCAAT 120
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Db 121 GAAGTGTGGGCGCGAGCTACTGCGGCGCTAAAGACAGCCAAATGGAAGTGGTGCAGATGAA 180
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QY 241 GGCTGCTGTGGTGACGAGGCTGTGCACTGTGTGGCGCTAAAGACAGCCAAATCACTATG 300
Db 241 GGCTGCTGTGGTGACGAGGCTGTGCACTGTGTGGCGCTAAAGACAGCCAAATCACTATG 300
QY 301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCTCT 360
Db 301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTTCTCT 360
QY 361 CAGGATGTACTCTCGGAATGCGAGGCTATTCTGGAGACGACAAAGGCGAGAAAGGAGGAAA 420
Db 361 CAGGATGTACTCTCGGAATGCGAGGCTATTCTGGAGACGACAAAGGCGAGAAAGGAGGAAA 420
QY 421 ACCAAGGGGAAGAGGAAAGCAAGCAAAAGCAAAACCCCAAGAGTGGAGATGACATTTCTCT 477
Db 421 ACCAAGGGGAAGAGGAAAGCAAGCAAAAGCAAAACCCCAAGAGTGGAGATGACATTTCTCT 477
RESULT 2
US-09-699-769-38
; Sequence 38, Application US/09699769
; Patent No. 6569434
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; TITLE OF INVENTION: C SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/699,769
; FILING DATE: 30-Oct-2000
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/586,039
; FILING DATE: 16-JAN-1996
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DB
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (732) 594-3905

CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-3905
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 417 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
US-08-586-039B-36

Query Match 86.8%; Score 414; DB 3; Length 417;
Best Local Similarity 100.0%; Pred. No. 7.5e-128;
Matches 414; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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QY 61 TCCAGGGGCGCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
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Db 61 TCCAGGGGCGCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
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Db 121 GAAGTGTGGGCGCGAGCTACTGCCGCCAATGGAGAAGCTGGGTACATTGCAGATGAA 180
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QY 181 CACCCTAATGAAGTGTCTCATATATTCACTCCGTCATGTCTTCTGAGTCGCTGTAGT 240
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Db 181 CACCCTAATGAAGTGTCTCATATATTCACTCCGTCATGTCTTCTGAGTCGCTGTAGT 240
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QY 361 CAGGATGTACTCTGCGAATGCAGGCCTATTCTGGAGACGACAAAGGCAGAAAGG 414
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Db 361 CAGGATGTACTCTGCGAATGCAGGCCTATTCTGGAGACGACAAAGGCAGAAAGG 414
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RESULT 4
US-09-699-769-36
Sequence 36, Application US/09699769
Patent No. 6569434
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
Thomas Jr., Kenneth A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
C SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:

MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/699,769
FILING DATE: 30-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/586,039
FILING DATE: 16-JAN-1996
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (732) 594-3905
TELEFAX: (732) 594-4720
INFORMATION FOR SEQ ID NO: 36:
SEQUENCE CHARACTERISTICS:
LENGTH: 417 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: DNA (genomic)
SEQUENCE DESCRIPTION: SEQ ID NO: 36:
US-09-699-769-36

Query Match 86.8%; Score 414; DB 4; Length 417;
Best Local Similarity 100.0%; Pred. No. 7.5e-128;
Matches 414; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTTGAGGTCCTAGCTGGGTTGGCTGTGCAC 60
|||
Db 1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTTGAGGTCCTAGCTGGGTTGGCTGTGCAC 60
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QY 61 TCCAGGGGCGCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTGGCTTTCAAT 120
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QY 121 GAAGTGTGGGCGCGAGCTACTGCCGCCAATGGAGAAGCTGGGTACATTGCAGATGAA 180
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Db 121 GAAGTGTGGGCGCGAGCTACTGCCGCCAATGGAGAAGCTGGGTACATTGCAGATGAA 180
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QY 181 CACCCTAATGAAGTGTCTCATATATTCACTCCGTCATGTCTTCTGAGTCGCTGTAGT 240
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Db 181 CACCCTAATGAAGTGTCTCATATATTCACTCCGTCATGTCTTCTGAGTCGCTGTAGT 240
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RESULT 5
US-08-586-039B-44
Sequence 44, Application US/08586039B
Patent No. 6140073
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
APPLICANT: Thomas Jr., Kenneth A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C


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; TELEX: WUI64470
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1645 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-039-297B-1

Query Match          44.8%; Score 213.6; DB 2; Length 1645;
Best Local Similarity 68.3%; Pred. No. 1.3e-60;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

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   |||||
Db 322 ATGCCGGTCATGAGGCTGTTCCCTTGCTTCTTGAGCTCCTGGCCGGCTGGCGCTGCCT 381
   |||||

QY 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
   |||||
Db 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 441
   |||||

QY 109 GTGCCCTTCAATGAAGTGTGGGGCCGAGCTACTGCCGGCCAATGGAGAAGCTGGTGAC 168
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Db 442 GTACCCCTTCCAGGAAGTGTGGGGCCGAGCTACTGCCGGCGCTGGAGAGGCTGGTGGAC 501
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QY 169 ATTGCAGATGAACCCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTCCTTCTG 228
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Db 502 GTCGTGTCGAGTACCCAGCGAGGTGGAGCACATGTTACGCCCATCTCTGTCTCCCTG 561
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QY 229 AGTCGCTGTAGTGGCTGTGGTGACGAGGCTGTGCACCTGTGTGGCGCTAAAGACAGCC 288
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QY 289 AACATCACTATGCAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAG 348
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   |||||

QY 409 GAAAGGAGGAAACCAAGGGGAGAGGAAAGCAAAACCCACAGACTGAGGAACCC 468
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Db 739 GAAAGGTGCGGCGATGCTGTTCCCGAGGTAACCCACCCCTTGGAGGAGAGACCCCG 798
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QY 469 CACCTG 474
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Db 799 CACCCG 804

RESULT 11
US-09-949-016-381
; Sequence 381, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 381
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Human

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US-09-949-016-381

Query Match          44.8%; Score 213.6; DB 4; Length 1645;
Best Local Similarity 68.3%; Pred. No. 1.3e-60;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY 1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTTGAGGTCCTAGCTGGTGGCTGTGCAC 60
   |||||
Db 322 ATGCCGGTCATGAGGCTGTTCCCTTGCTTCTTGAGCTCCTGGCCGGCTGGCGCTGCCT 381
   |||||

QY 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
   |||||
Db 382 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 441
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QY 109 GTGCCCTTCAATGAAGTGTGGGGCCGAGCTACTGCCGGCCAATGGAGAAGCTGGTGAC 168
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Db 442 GTACCCCTTCCAGGAAGTGTGGGGCCGAGCTACTGCCGGCGCTGGAGAGGCTGGTGGAC 501
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QY 169 ATTGCAGATGAACCCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTCCTTCTG 228
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Db 502 GTCGTGTCGAGTACCCAGCGAGGTGGAGCACATGTTACGCCCATCTCTGTCTCCCTG 561
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QY 229 AGTCGCTGTAGTGGCTGTGGTGACGAGGCTGTGCACCTGTGTGGCGCTAAAGACAGCC 288
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QY 289 AACATCACTATGCAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAG 348
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Db 622 AATGTCACCATGCAGCTCCTAAAGAT---CCGTTCTGGGACCGGCCCTCTACGTGGAG 678
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QY 349 ATGACATTCTCTCAGGATGTACTCTGCGAATGCAGGCCTATTCTGGAGACGACAAAGGCA 408
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Db 679 CTGACGTTCTCTCAGCACGTTTCGCTGCGAATGCCGGCCTCTGCGGGAGAAGATGAAGCCG 738
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QY 409 GAAAGGAGGAAACCAAGGGGAGAGGAAAGCAAAACCCACAGACTGAGGAACCC 468
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Db 739 GAAAGGTGCGGCGATGCTGTTCCCGAGGTAACCCACCCCTTGGAGGAGAGACCCCG 798
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QY 469 CACCTG 474
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Db 799 CACCCG 804

RESULT 12
US-08-586-039B-46
; Sequence 46, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/586,039B
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436

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OM nucleic - nucleic search, using sw model

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Gapop 10.0 , Gapext 1.0

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Maximum Match 100%
Listing first 45 summaries

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16: /cgn2_6/ptodata/2/pubpna/US10D_PUBCOMB.seq:*
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20: /cgn2_6/ptodata/2/pubpna/US11_NEW_PUB.seq:*
21: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
22: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	477	100.0	477	14 US-10-071-370A-3	Sequence 3, Appli
2	414	86.8	417	14 US-10-071-370A-5	Sequence 5, Appli
3	213.6	44.8	1645	9 US-09-795-006A-114	Sequence 114, App
4	213.6	44.8	1645	15 US-10-262-538-27	Sequence 27, Appl
5	213.6	44.8	1645	15 US-10-007-926A-103	Sequence 103, App
6	213.6	44.8	1645	15 US-10-101-510-590	Sequence 590, App
7	213.6	44.8	1645	16 US-10-021-660-35	Sequence 35, Appl
8	213.6	44.8	1645	17 US-10-021-462-114	Sequence 114, App
9	213.6	44.8	1645	18 US-10-669-176-27	Sequence 27, Appl
10	213.6	44.8	1645	18 US-10-772-927A-15	Sequence 15, Appl
11	213.2	44.7	468	17 US-10-343-825A-11	Sequence 11, Appl

12	187.6	39.3	450	17	US-10-343-825A-12	Sequence 12, Appl
13	168.4	35.3	475	10	US-09-918-995-1813	Sequence 1813, Ap
14	147.4	30.9	474	17	US-10-343-825A-13	Sequence 13, Appl
15	121.8	25.5	474	17	US-10-343-825A-14	Sequence 14, Appl
16	109	22.9	1104	10	US-09-832-355A-93	Sequence 93, Appl
17	108.8	22.8	670	17	US-10-294-228-5	Sequence 5, Appli
18	108.8	22.8	677	15	US-10-189-360-3	Sequence 3, Appli
19	108.8	22.8	728	15	US-10-189-360-4	Sequence 4, Appli
20	108.4	22.7	576	17	US-10-419-045-3	Sequence 3, Appli
21	107.6	22.6	645	17	US-10-152-319A-1958	Sequence 1958, Ap
22	107.6	22.6	645	18	US-10-664-705-3	Sequence 3, Appli
23	107.2	22.5	516	9	US-09-812-133-1	Sequence 1, Appli
24	107.2	22.5	516	13	US-10-083-817-7	Sequence 7, Appli
25	107.2	22.5	516	14	US-10-268-447-3	Sequence 3, Appli
26	107.2	22.5	516	16	US-10-319-828-1	Sequence 1, Appli
27	107.2	22.5	516	17	US-10-418-529-3	Sequence 3, Appli
28	107.2	22.5	516	18	US-10-749-706-7	Sequence 7, Appli
29	107.2	22.5	545	15	US-10-293-157-1	Sequence 1, Appli
30	107.2	22.5	642	13	US-10-083-817-9	Sequence 9, Appli
31	107.2	22.5	642	14	US-10-268-447-7	Sequence 7, Appli
32	107.2	22.5	642	17	US-10-418-529-7	Sequence 7, Appli
33	107.2	22.5	642	18	US-10-749-706-9	Sequence 9, Appli
34	107.2	22.5	645	17	US-10-370-291-5	Sequence 5, Appli
35	107.2	22.5	648	17	US-10-294-228-4	Sequence 4, Appli
36	107.2	22.5	665	15	US-10-293-157-29	Sequence 29, Appl
37	107.2	22.5	696	17	US-10-370-291-7	Sequence 7, Appli
38	107.2	22.5	699	13	US-10-083-817-10	Sequence 10, Appl
39	107.2	22.5	699	14	US-10-268-447-9	Sequence 9, Appli
40	107.2	22.5	699	17	US-10-418-529-9	Sequence 9, Appli
41	107.2	22.5	699	18	US-10-749-706-10	Sequence 10, Appl
42	107.2	22.5	785	17	US-10-191-997-114	Sequence 114, App
43	107.2	22.5	815	9	US-09-795-006A-146	Sequence 146, App
44	107.2	22.5	1723	19	US-10-615-343-14	Sequence 14, Appl
45	105.8	22.2	1116	10	US-09-832-355A-88	Sequence 88, Appl

ALIGNMENTS

RESULT 1
US-10-071-370A-3
; Sequence 3, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Conn, Gregory L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; TITLE OF INVENTION: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; PRIOR FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 3
; LENGTH: 477
; TYPE: DNA
; ORGANISM: rat
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)....(477)
US-10-071-370A-3

Wed Feb 23 08:36:36 2005

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Best Local Similarity 100.0%; Pred. No. 1.1e-155;
Matches 477; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY      1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTGCAGGTCCTAGCTGGGTTGGCTGTGCAC 60
Db      1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTGCAGGTCCTAGCTGGGTTGGCTGTGCAC 60

QY      61 TCCCAGGGGCCCCTGCTGCTGGGAACAACAACTCAACAGAAATGGAAGTGGTGCCTTCAAT 120
Db      61 TCCCAGGGGCCCCTGCTGCTGGGAACAACAACTCAACAGAAATGGAAGTGGTGCCTTCAAT 120

QY      121 GAAAGTGTGGGCGCGCAGCTACTGCCGGCCAAATGGAGAAAGCTGGTGACATTCAGATGAA 180
Db      121 GAAAGTGTGGGCGCGCAGCTACTGCCGGCCAAATGGAGAAAGCTGGTGACATTCAGATGAA 180

QY      181 CACCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTGTCCTTCTGAGTCGCTGTAGT 240
Db      181 CACCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTGTCCTTCTGAGTCGCTGTAGT 240

QY      241 GGCTGCTGTGGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCCCAACATCACTATG 300
Db      241 GGCTGCTGTGGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCCCAACATCACTATG 300

QY      301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTCTCT 360
Db      301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTCTCT 360

QY      361 CAGATGTACTCTGCGAATGCGAGCCCTATTCTGGAGACGACAAAGGCAGAAAGGAGAA 420
Db      361 CAGGATGTACTCTGCGAATGCGAGCCCTATTCTGGAGACGACAAAGGCAGAAAGGAGAA 420

QY      421 ACCAAGGGGAAGAGGAAGCAAGCAAAACCCACAGACTGAGGAACCCCACTGTGA 477
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RESULT 2
US-10-071-370A-5
; Sequence 5, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Conn, Gregory L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; TITLE OF INVENTION: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 5
; LENGTH: 417
; TYPE: DNA
; ORGANISM: rat
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (1)...(417)
US-10-071-370A-5
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Best Local Similarity 100.0%; Pred. No. 1.1e-133;

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Db      61 TCCCAGGGGCCCCTGCTGCTGGGAACAACAACTCAACAGAAATGGAAGTGGTGCCTTCAAT 120

QY      121 GAAAGTGTGGGCGCGCAGCTACTGCCGGCCAAATGGAGAAAGCTGGTGACATTCAGATGAA 180
Db      121 GAAAGTGTGGGCGCGCAGCTACTGCCGGCCAAATGGAGAAAGCTGGTGACATTCAGATGAA 180

QY      181 CACCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTGTCCTTCTGAGTCGCTGTAGT 240
Db      181 CACCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTGTCCTTCTGAGTCGCTGTAGT 240

QY      241 GGCTGCTGTGGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCCCAACATCACTATG 300
Db      241 GGCTGCTGTGGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCCCAACATCACTATG 300

QY      301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTCTCT 360
Db      301 CAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCCTACGTGGAGATGACATTCTCT 360

QY      361 CAGATGTACTCTGCGAATGCGAGCCCTATTCTGGAGACGACAAAGGCAGAAAGG 414
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RESULT 3
US-09-795-006A-114
; Sequence 114, Application US/09795006A
; Patent No. US20020151680A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo et al
; TITLE OF INVENTION: MATERIALS AND METHODS INVOLVING HYBRID VASCULAR
; TITLE OF INVENTION: ENDOTHELIAL GROWTH FACTOR DNAs AND PROTEINS
; FILE REFERENCE: 28967/35977B
; CURRENT APPLICATION NUMBER: US/09/795,006A
; CURRENT FILING DATE: 2001-02-26
; PRIOR APPLICATION NUMBER: US 60/205,331
; PRIOR FILING DATE: 2000-05-18
; PRIOR APPLICATION NUMBER: US 60/185,205
; PRIOR FILING DATE: 2000-02-25
; NUMBER OF SEQ ID NOS: 175
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 114
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (322)..(768)
US-09-795-006A-114
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Query Match      44.8%; Score 213.6; DB 9; Length 1645;
Best Local Similarity 68.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY      1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTGCAGGTCCTAGCTGGGTTGGCTGTGCAC 60
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QY      61 TCC-----CAGGGGGCCCTGTCTCTGGGAACAACAACTCAACAGAAATGGAAGTG 108
Db      382 GCTGTGCCCCCCCCCAGCAGTGGGCTTGCTGTCTGGGAACGGCTCGTCAGAGGTGGAAGTG 441

QY      109 GTGCCTTTCAATGAAGTGTGGGCGCGCAGCTACTCGCGCCCAATGGAGAAAGCTGGTGAC 168
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; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 15
; LENGTH: 1645
; TYPE: DNA
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: CDS
; LOCATION: (322)..(768)
US-10-772-927A-15

Query Match      44.8%; Score 213.6; DB 18; Length 1645;
Best Local Similarity 58.3%; Pred. No. 2e-63;
Matches 332; Conservative 0; Mismatches 139; Indels 15; Gaps 2;

QY      1 ATGCTGGCCATGAAGCTGTTACATTGCTTCTTGCCAGGTCCTAGCTGGGTTGGCTGTGCAC 60
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QY      61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
Db      61 GCTGTGCCCCCCCCCAGCAGTGGGCCCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 120
QY      109 GTGCCCTTTCAATGAAGTGTGGGGCCGCGAGCTACTGCCGGCCAAATGGAGAACTGGTGTAC 168
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QY      169 ATTGCAGATGAACCCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTCTCTTCTG 228
Db      181 GTCGTGTCGAGTACCCAGCGAGGTGGAGCACATGTTTCAGCCCCATCTCTGTCTCTCCCTG 240
QY      229 AGTCGCTGTAGTGGCTGTGGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCC 288
Db      241 CTGGGCTGCACCCGGCTGTGGCGCATGAGAAATCTGCACCTGTGTGCCGCTGGAGACGGCC 300
QY      289 AACATCACTATGCAGATCTTAAAGATTCCCCCCTAAATCGGGATCCACATTCCTACGTGGAG 348
Db      301 AATGTCAACATGCAGCTCTTAAAGAT---CCGTTCTGGGGACCGGCCCTCTCTACGTGGAG 357
QY      349 ATGACATTCTTCAGGATGTACTCTCGGAATGCGGATTCAGGCTTATTTCTGGAGACGACAAAGGCA 408
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QY      409 GAAAGGAG 416
Db      418 GAAAGGTG 425

RESULT 12
US-10-343-825A-12
; Sequence 12, Application US/10343825A
; Publication No. US20040038341A1
; GENERAL INFORMATION:
; APPLICANT: SHIBUYA, Masabumi
; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor
; FILE REFERENCE: P23303
; CURRENT APPLICATION NUMBER: US/10/343,825A
; CURRENT FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: PCT/JP01/06856
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 12
; LENGTH: 450
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein
US-10-343-825A-12

Query Match      39.3%; Score 187.6; DB 17; Length 450;
Best Local Similarity 68.7%; Pred. No. 1.4e-54;
Matches 294; Conservative 0; Mismatches 119; Indels 15; Gaps 2;

QY      1 ATGCTGGCCATGAAGCTGTTACATTGCTTCTTGCCAGGTCCTAGCTGGGTTGGCTGTGCAC 60
Db      1 ATGCTGGCCATGAAGCTGTTACCTTCTCTGCTGAGCTCCTGCGCGGCTGGCGCTGCCT 60
QY      61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
Db      61 GCTGTGCCCCCCCCCAGCAGTGGGCCCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 120
QY      109 GTGCCCTTTCAATGAAGTGTGGGGCCGCGAGCTACTGCCGGCCAAATGGAGAACTGGTGTAC 168
Db      121 GTACCCCTTCCAGGAAGTGTGGGGCCGCGAGCTACTGCCGGCCGCTGGAGAGGCTGGTGGAC 180
QY      169 ATTGCAGATGAACCCCTAATGAAGTGTCTCATATATTTCAGTCCGTCATGTCTCTTCTG 228
Db      181 GTCGTGTCGAGTACCCAGCGAGGTGGAGCACATGTTTCAGCCCCATCTCTGTCTCTCCCTG 240
QY      229 AGTCGCTGTAGTGGCTGTGGTGACGAGGGTCTGCACCTGTGTGGCGCTAAAGACAGCC 288
Db      241 CTGGGCTGCACCCGGCTGTGGCGCATGAGAAATCTGCACCTGTGTGCCGCTGGAGACGGCC 300
QY      289 AACATCACTATGCAGATCTTAAAGATTCCCCCCTAAATCGGGATCCACATTCCTACGTGGAG 348
Db      301 AATGTCAACATGCAGCTCTTAAAGAT---CCGTTCTGGGGACCGGCCCTCTCTACGTGGAG 357
QY      349 ATGACATTCTTCAGGATGTACTCTCGGAATGCGGATTCAGGCTTATTTCTGGAGACGACAAAGGCA 408
Db      358 CTGACGTTCTCTCAGCACGTTCTCGCTGCGAATGCCGGCCTCTGCGGGAGAAAGATGAAGCCG 417
QY      409 GAAAGGAG 416
Db      418 GAAAGGTG 425

RESULT 11
US-10-343-825A-11
; Sequence 11, Application US/10343825A
; Publication No. US20040038341A1
; GENERAL INFORMATION:
; APPLICANT: SHIBUYA, Masabumi
; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor
; FILE REFERENCE: P23303
; CURRENT APPLICATION NUMBER: US/10/343,825A
; CURRENT FILING DATE: 2003-09-09
; PRIOR APPLICATION NUMBER: PCT/JP01/06856
; PRIOR FILING DATE: 2001-08-09
; NUMBER OF SEQ ID NOS: 15
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 11
; LENGTH: 468
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein
US-10-343-825A-11
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QY 169 ATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATTCAAGTCCGTCATGTCTTCTG 228

Db 181 TTGGGAGAAGATATCCAGAAAGCACTAACCTACAATATAATCCCCGGTGTGTCTCCCTG 240

QY 229 AGTCGCTGTAGTGGCTGTGTGGTGACGAGGGTCTGCACTGTGTGGCGCTAAAGACAGCC 288

Db 241 CTGCGCTGCACCGGCTGTGCGCGATGAGAACTGCACTGTGTGCGGTTGGAGACGGCC 300

QY 289 AACATCACTATGCAGATCTTAAAGATTCCCCCAATCGGGATCCACATTCTCCTACGTGGAG 348

Db 301 AATGTACCACTGCAGCTCCTAAAGAT---CCGTTCTGGGACCGGCCCTCTCTACGTGGAG 357

QY 349 ATGACATTCTCTCAGGATGTAATCTGCGAATGACAGGCCCTATTCTGGAGACGACAAAGGCA 408

Db 358 CTGACGTTCTCTCAGCACGTTTCGCTGCGAATGCGGGCCTCTGCGGGAAGATGAAGCCG 417

QY 409 GAAAGGAG 416

Db 418 GAAAGGTG 425

RESULT 13

US-09-918-995-1813

; Sequence 1813, Application US/09918995

; Publication No. US20030073623A1

; GENERAL INFORMATION:

; APPLICANT: Hyseq, Inc.

; TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED

; FILE REFERENCE: 20411-756

; CURRENT APPLICATION NUMBER: US/09/918,995

; PRIOR FILING DATE: 2001-07-30

; PRIOR FILING DATE: 1999-01-20

; NUMBER OF SEQ ID NOS: 38054

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 1813

; LENGTH: 475

; TYPE: DNA

; ORGANISM: Homo sapiens

; NAME/KEY: misc feature

; LOCATION: (1)...(475)

; OTHER INFORMATION: n = A,T,C or G

Query Match 35.3%; Score 168.4; DB 10; Length 475;

Best Local Similarity 66.0%; Pred. No. 7.3e-48;

Matches 260; Conservative 0; Mismatches 131; Indels 3; Gaps 1;

QY 81 TGGGAACAACCTCAACAGAAATGGAAGTGGTGCTTCAATGAAGTGTGGGCGCAGCTA 140

Db 29 TTGGATCGCCTCGTCCGAGGTGGAAGTGGTACCCCTCCAGGAAGTGTGGGCGCAGCTA 88

QY 141 CTGCGGGCCAATGGAGAAGCTGGGTACATTGCAGATGAACACCCCTAATGAAGTGTCTCA 200

Db 89 CTGCGGGCGCTGGAGAGCTGGTGGACGTCTCTCCGAGTACCCAGCGAGGTGGAGCA 148

QY 201 TATATTCAGTCCGTCAATGTGTCTTCTGAGTCCGTGTAGTGGCTGTGTGGTACGAGGG 260

Db 149 CATGTTACGCCCATCTCTGTGTCTCCCTGTGCGGTGCACCGGCTGTGCGCGATGAGAA 208

QY 261 TCTGCACTGTGTGGCGCTAAAGACAGCCAACTACTATGCAGATCTTAAAGATTCCCC 320

Db 209 TCTGCACTGTGTGCGGTGGAGACGGCCAAATGTACCATGCAGTCTCTAAAGAT---CCG 265

QY 321 CAATCGGGATCCACATTCCTACGTGGAGATGACATCTCTCAGGATGTACTCTGCGAATG 380

Db 266 GTCTGGGACCGGCCCTCTACAGGGAGTACGTTCTCTCAGCACGTTTCGTTGGGAAAG 325

QY 381 CAGGCCTATTCTGGAGACGACAAAGGCGAGAAAGGAGGAAAACCAAGGGGAAGAGGAA 440

Db 326 CCAGCCTCTGCGGGAGAAGATGAAGCCGAAAGGTGCGGGGATGCTGTTCCCGGAGGTA 385

QY 441 AAGCAAAACCCACAGACTGAGGAACCCACCTG 474

Db 386 ACCCACCCTTGGAGGAGAGAGACCCCGCACCCG 419

RESULT 14

US-10-343-825A-13

; Sequence 13, Application US/10343825A

; Publication No. US20040038341A1

; GENERAL INFORMATION:

; APPLICANT: SHIBUYA, Masabumi

; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor

; FILE REFERENCE: P23303

; CURRENT APPLICATION NUMBER: US/10/343,825A

; CURRENT FILING DATE: 2003-09-09

; PRIOR APPLICATION NUMBER: PCT/JP01/06856

; PRIOR FILING DATE: 2001-08-09

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn version 3.2

; SEQ ID NO 13

; LENGTH: 474

; TYPE: DNA

; ORGANISM: Artificial

; FEATURE:

; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein

US-10-343-825A-13

Query Match 30.9%; Score 147.4; DB 17; Length 474;

Best Local Similarity 70.1%; Pred. No. 1.6e-40;

Matches 218; Conservative 0; Mismatches 81; Indels 12; Gaps 1;

QY 1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTTTCAGGTCCTAGCTGGGTGGCTGTGCAC 60

Db 1 ATGCCGTCATGAGGCTGTTCCCTTGCTTCTCTGAGCTCCTGGCCGGCTGGCGTGCCT 60

QY 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACTCAACAGAAATGGAAGTG 108

Db 61 GCTGTGCCCCCAGCAGTGGGCTTGTCTGCTGGAAACGGCTCGTCAGAGGTGGAAGTG 120

QY 109 GTGCCTTTCAATGAAGTGTGGGGCCGAGTACTCCTGGCCCAATGGAGAGCTGGTGAC 168

Db 121 GTACCCCTCCAGGAAGTGTGGGGCCGAGTACTCCTGGGGCGCTGGAGAGCTGGTGAC 180

QY 169 ATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATTCACTCCGTCATGTCTCTTCTG 228

Db 181 GTCGTGTCCGAGTACCCAGCGAGGTGGAGCACATGTTACGCCCATCTCTGTCTCCCTG 240

QY 229 AGTCGCTGTAGTGGCTGTGTGGTGACGAGGTCTGCACCTGTGTGGCGCTAAAGACAGCC 288

Db 241 CTGCGTGCACCGGCTGTGCGGCGATGAGAATCTGCACCTGTACAGCGGTGAAACAAGA 300

QY 289 AACATCACTAT 299

Db 301 AATACAACTGT 311

RESULT 15

US-10-343-825A-14

; Sequence 14, Application US/10343825A

; Publication No. US20040038341A1

; GENERAL INFORMATION:

; APPLICANT: SHIBUYA, Masabumi

; TITLE OF INVENTION: Chimeric Human-Type Vascular Endothelial Cell Growth Factor

; FILE REFERENCE: P23303

; CURRENT APPLICATION NUMBER: US/10/343,825A

; CURRENT FILING DATE: 2003-09-09

; PRIOR APPLICATION NUMBER: PCT/JP01/06856

; PRIOR FILING DATE: 2001-08-09

; NUMBER OF SEQ ID NOS: 15

; SOFTWARE: PatentIn version 3.2

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; SEQ ID NO 14
; LENGTH: 474
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: Sequence encoding Chimeric VEGF protein
US-10-343-825A-14

Query Match      25.5%; Score 121.8; DB 17; Length 474;
Best Local Similarity 55.0%; Pred. No. 1.4e-31;
Matches 202; Conservative 0; Mismatches 97; Indels 12; Gaps 1;

QY 1 ATGCTGGCCATGAAGCTGTTCACTTGCTTCTTGTCAGGTCCTAGCTGGGTTGGCTGTGCAC 60
Db 1 ATGCGGCTCATGAGGCTGTTCCCTTGCTTCCTGCAGCTCCTGCGCGGCTGGCGCTGCCT 60

QY 61 TCC-----CAGGGGGCCCTGTCTGCTGGGAACAACCTCAACAGAAATGGAAGTG 108
Db 61 GCTGTGCCCCCCCCAGCAGTGGGCCCTTGTCTGCTGGGAACGGCTCGTCAGAGGTGGAAGTG 120

QY 109 GTGCCCTTTCAATGAAGTGTGGGGCCGCGAGCTACTGCCGGCCCAATGGAGAAGCTGGTGTAC 168
Db 121 GTACCCCTTCCAGGAAGTGTGGGGCCGCGAGCTACTGCAAAACCTAGAGATACTGTTGTTTAT 180

QY 169 ATTGCAGATGAACACCCCTAATGAAGTGTCTCATATATATTTCAGTCCGTCATGTGTCCTTCTG 228
Db 181 TTGGGAGAAGAATATCCAGAAAGCACTAACTACAATATAATCCCGGTGTGTCTCCCTG 240

QY 229 AGTCGCTGTAGTGGCTGCTGTGGTGACGAGGCTCTGCACGTGTGTGGCGCTAAAGACAGCC 288
Db 241 CTGCGCTGCACCGGCTGCTGCGGCGATGAGAATCTGCACTGTACAGCGGTTGAAACAAGA 300

QY 289 AACATCACTAT 299
Db 301 AATACAACCTGT 311
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Search completed: February 23, 2005, 01:42:31
Job time : 449 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2005, 04:24:59 ; Search time 23 Seconds
(without alignments)
512.807 Million cell updates/sec

Title: US-10-071-370A-4
Perfect score: 846
Sequence: 1 MLAMKLFTCFLQVLAVH.....RKTGKRKQSKTPQTEPHL 158

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 513545 seqs, 74649064 residues

Total number of hits satisfying chosen parameters: 513545

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents AA:*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES															
Result No.	%					Description									
	Score	Query Match	Length	DB	ID										
1	846	100.0	158	3	US-08-586-039B-39	Sequence 39, Appl									
2	846	100.0	158	4	US-09-699-769-39	Sequence 39, Appl									
3	740	87.5	138	3	US-08-586-039B-37	Sequence 37, Appl									
4	740	87.5	138	4	US-09-699-769-37	Sequence 37, Appl									
5	501.5	59.3	170	2	US-08-039-297B-8	Sequence 8, Appl									
6	501.5	59.3	170	3	US-08-586-039B-45	Sequence 45, Appl									
7	501.5	59.3	170	4	US-09-699-769-45	Sequence 45, Appl									
8	499.5	59.0	170	4	US-09-431-888-5	Sequence 5, Appl									
9	499.5	59.0	170	4	US-09-438-046-11	Sequence 11, Appl									
10	498.5	58.9	154	3	US-08-586-039B-41	Sequence 41, Appl									
11	498.5	58.9	154	4	US-09-699-769-41	Sequence 41, Appl									
12	493.5	58.3	170	4	US-09-214-982-32	Sequence 32, Appl									
13	474.5	56.1	149	1	US-08-469-427A-14	Sequence 14, Appl									
14	474.5	56.1	149	2	US-08-039-297B-2	Sequence 2, Appl									
15	474.5	56.1	149	2	US-08-569-063C-21	Sequence 21, Appl									
16	474.5	56.1	149	3	US-08-795-430-55	Sequence 55, Appl									
17	474.5	56.1	149	3	US-08-586-039B-47	Sequence 47, Appl									
18	474.5	56.1	149	3	US-09-355-700-55	Sequence 55, Appl									
19	474.5	56.1	149	4	US-08-706-054A-5	Sequence 5, Appl									
20	474.5	56.1	149	4	US-09-699-769-47	Sequence 47, Appl									
21	474.5	56.1	149	4	US-09-313-299-5	Sequence 5, Appl									
22	474.5	56.1	149	4	US-08-671-573B-54	Sequence 54, Appl									
23	474.5	56.1	149	4	US-09-631-092B-54	Sequence 54, Appl									
24	474.5	56.1	149	4	US-09-468-647A-106	Sequence 106, App									
25	474.5	56.1	149	4	US-09-949-016-6252	Sequence 6252, App									
26	474.5	56.1	149	4	US-09-534-376A-55	Sequence 55, Appl									
27	319.5	37.8	214	3	US-08-586-039B-35	Sequence 35, Appl									

28	319.5	37.8	214	4	US-09-699-769-35	37.8	214	4	US-09-699-769-35	37.8	214	4	US-09-699-769-35	37.8	214	Sequence 35, Appl
29	316	37.4	214	6	5240848-11	37.4	214	6	5240848-11	37.4	214	6	5240848-11	37.4	214	Patent No. 5240848
30	316	37.4	214	6	5240848-11	37.4	214	6	5240848-11	37.4	214	6	5240848-11	37.4	214	Patent No. 5240848
31	315	37.2	188	4	US-09-244-583-28	37.2	188	4	US-09-244-583-28	37.2	188	4	US-09-244-583-28	37.2	188	Sequence 28, Appl
32	315	37.2	213	4	US-09-574-708A-8	37.2	213	4	US-09-574-708A-8	37.2	213	4	US-09-574-708A-8	37.2	213	Sequence 8, Appl
33	315	37.2	215	3	US-08-586-039B-49	37.2	215	3	US-08-586-039B-49	37.2	215	3	US-08-586-039B-49	37.2	215	Sequence 49, Appl
34	315	37.2	215	4	US-09-699-769-49	37.2	215	4	US-09-699-769-49	37.2	215	4	US-09-699-769-49	37.2	215	Sequence 49, Appl
35	315	37.2	215	4	US-09-392-931-8	37.2	215	4	US-09-392-931-8	37.2	215	4	US-09-392-931-8	37.2	215	Sequence 8, Appl
36	315	37.2	215	4	US-09-468-647A-105	37.2	215	4	US-09-468-647A-105	37.2	215	4	US-09-468-647A-105	37.2	215	Sequence 105, App
37	315	37.2	215	6	5240848-7	37.2	215	6	5240848-7	37.2	215	6	5240848-7	37.2	215	Patent No. 5240848
38	315	37.2	215	6	5240848-7	37.2	215	6	5240848-7	37.2	215	6	5240848-7	37.2	215	Patent No. 5240848
39	315	37.2	232	2	US-08-999-811-7	37.2	232	2	US-08-999-811-7	37.2	232	2	US-08-999-811-7	37.2	232	Sequence 7, Appl
40	315	37.2	232	2	US-08-824-996-9	37.2	232	2	US-08-824-996-9	37.2	232	2	US-08-824-996-9	37.2	232	Sequence 9, Appl
41	315	37.2	232	3	US-09-042-105-7	37.2	232	3	US-09-042-105-7	37.2	232	3	US-09-042-105-7	37.2	232	Sequence 7, Appl
42	315	37.2	232	4	US-09-574-708A-10	37.2	232	4	US-09-574-708A-10	37.2	232	4	US-09-574-708A-10	37.2	232	Sequence 10, Appl
43	315	37.2	232	4	US-08-465-968-5	37.2	232	4	US-08-465-968-5	37.2	232	4	US-08-465-968-5	37.2	232	Sequence 5, Appl
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45	315	37.2	232	4	US-09-214-982-33	37.2	232	4	US-09-214-982-33	37.2	232	4	US-09-214-982-33	37.2	232	Sequence 33, Appl

ALIGNMENTS

RESULT 1
US-08-586-039B-39
; Sequence 39, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/586,039B
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3905
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 39:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 158 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-586-039B-39

Query Match 100.0%; Score 846; DB 3; Length 158;
Best Local Similarity 100.0%; Pred. No. 9.1e-91;
Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;


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; ANGLE INFORMATION FOR SEQ ID NO: 37:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 138 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; SEQUENCE DESCRIPTION: SEQ ID NO: 37:
US-09-699-769-37

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[illegible]

RESULT 6
US-08-586-039B-45
; Sequence 45, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA

APPLICANT: INOMAS J.L., REMIECH A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
TITLE OF INVENTION: SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA

ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/586,039B
FILING DATE: 16-JAN-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (732) 594-3905
TELEFAX: (732) 594-4720
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 170 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 45:
US-09-699-769-45
Query Match 59.3%; Score 501.5; DB 4; Length 170;
Best Local Similarity 61.5%; Pred. No. 1.6e-50;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;
QY 1 MLAMKLFCTCFLQVLAVHS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPFCFLQLLAGLPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPSCVLLSRCSGCCGDEGLHCVALKTANITMQILKIPNRPDPSYVE 116
Db 61 VVSEYPSEVHEMFSPSCVSLRLCTGCCGDENLHCVPVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECPILETTKAERKTKGKRKQSKTPQ 152
Db 120 LTFQHVRCCECPRLREKMKPERRRPKGRGRRREKQ 155
RESULT 8
US-09-431-888-5
Sequence 5, Application US/09431888A
Patent No. 6541008
GENERAL INFORMATION:
APPLICANT: Wise, Lyn M
APPLICANT: Mercer, Andrew A
APPLICANT: Savory, Loreen J
APPLICANT: Fleming, Stephen B
APPLICANT: Stacker, Stephen
TITLE OF INVENTION: VASCULAR ENOTHELIAL GROWTH FACTOR-LIKE PROTEIN FROM ORF
TITLE OF INVENTION: VIRUS N22 BINDS AND ACTIVATES MAMMALIAN VEGF
TITLE OF INVENTION: RECEPTOR-2, AND USES THEREOF
FILE REFERENCE: Sequence Listing for 09/431,833
Patent No. 6541008
CURRENT APPLICATION NUMBER: US/09/431,888A
CURRENT FILING DATE: 1999-11-02
EARLIER APPLICATION NUMBER: 60/106,689
EARLIER FILING DATE: 1998-11-02
EARLIER APPLICATION NUMBER: 60/106,800
EARLIER FILING DATE: 1998-11-03
NUMBER OF SEQ ID NOS: 11
SOFTWARE: PatentIn ver. 2.0
SEQ ID NO 5
LENGTH: 170
TYPE: PRT
ORGANISM: Homo sapiens
US-09-431-888-5
Query Match 59.0%; Score 499.5; DB 4; Length 170;
Best Local Similarity 61.5%; Pred. No. 2.8e-50;

ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/586,039B
FILING DATE: 16-JAN-1996
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DA
TELECOMMUNICATION INFORMATION:
TELEPHONE: (908) 594-3905
TELEFAX: (908) 594-4720
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 170 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 45:
US-08-586-039B-45
Query Match 59.3%; Score 501.5; DB 3; Length 170;
Best Local Similarity 61.5%; Pred. No. 1.6e-50;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;
QY 1 MLAMKLFCTCFLQVLAVHS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPFCFLQLLAGLPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPSCVLLSRCSGCCGDEGLHCVALKTANITMQILKIPNRPDPSYVE 116
Db 61 VVSEYPSEVHEMFSPSCVSLRLCTGCCGDENLHCVPVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECPILETTKAERKTKGKRKQSKTPQ 152
Db 120 LTFQHVRCCECPRLREKMKPERRRPKGRGRRREKQ 155
RESULT 7
US-09-699-769-45
Sequence 45, Application US/09699769
Patent No. 6569434
GENERAL INFORMATION:
APPLICANT: Bayne, Marvin L.
APPLICANT: Thomas Jr., Kenneth A.
TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
C SUBUNIT
NUMBER OF SEQUENCES: 49
CORRESPONDENCE ADDRESS:
ADDRESSEE: Merck & Co., Inc.
STREET: 126 E. Lincoln Avenue
CITY: Rahway
STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/699,769
FILING DATE: 30-Oct-2000

[illegible]

RESULT 9
US-09-438-046-11
; Sequence 11, Application US/09438046
; Patent No. 6706687
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: AASE, Karin
; APPLICANT: LEE, Xuri
; APPLICANT: PONTN, Annica
; APPLICANT: UUTELA, Marko
; APPLICANT: ALITALO, Kari
; APPLICANT: OESTMAN, Arne
; APPLICANT: HELDIN, Carl-Henrik
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR D, DNA CODING
; TITLE OF INVENTION: THEREFOR, AND USES THEREOF
; FILE REFERENCE: Ulf Eriksson et al 1064-44833
; CURRENT APPLICATION NUMBER: US/09/438,046
; CURRENT FILING DATE: 1999-11-10
; EARLIER APPLICATION NUMBER: 60/107,852
; EARLIER FILING DATE: 1998-11-10
; EARLIER APPLICATION NUMBER: 60/113,997
; EARLIER FILING DATE: 1999-12-28
; EARLIER APPLICATION NUMBER: 60/150,604
; EARLIER FILING DATE: 1999-08-26
; EARLIER APPLICATION NUMBER: 60/157,108
; EARLIER FILING DATE: 1999-10-04
; EARLIER APPLICATION NUMBER: 60/157,756
; EARLIER FILING DATE: 1999-10-05
; NUMBER OF SEQ ID NOS: 31
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 11
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-438-046-11

	Query Match	59.0%;	Score 499.5;	DB 4;	Length 170;
	Best Local Similarity	61.5%;	Pred. No. 2.8e-50;		
	Matches 96;	Conservative 23;	Mismatches 32;	Indels 5;	Gaps 2;
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Dd	1	MPVMRLF	PCFLQLLAGLAP	VPPQQWALSAGN	SSEVEVPFEVWGRSYCRALERLVD 60
Qy	57	IADHPNEVSHI	FSPSCVLLSRCSG	CCGDEGLHCVALK	TANITMQILKIPNRDPHSYVE 116
	:				
Dd	61	VVSEYPSEVEHMF	SPSCVSLURCTGC	CGDEDLHCVPETAN	VTMQLLKIRSGDRP-SYVE 119
Qy	117	MTFSQDVLCECRPI	LETTKAERRKTKG	KRKQSKTPQ	152
	:				
Dd	120	LTFSQHVRCERPLR	EKMKEPKRRRPK	GRGKRRENO	155

RESULT 10
US-08-586-039B-41
; Sequence 41, Application US/08586039B
; Patent No. 6140073
; GENERAL INFORMATION:

```

; APPLICANT: Bayne, Marvin L.
; APPLICANT: Thomas Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR C
; TITLE OF INVENTION: SUBUNIT
; NUMBER OF SEQUENCES: 49
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Merck & Co., Inc.
; STREET: 126 E. Lincoln Avenue
; CITY: Rahway
; STATE: New Jersey
; COUNTRY: USA
; ZIP: 07065-0900
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Microsoft Word 6
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/586,039B
; FILING DATE: 16-JAN-1996
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/124,259
; FILING DATE: 20-SEP-1993
; APPLICATION NUMBER: 07/676,436
; FILING DATE: 28-MAR-1991
; ATTORNEY/AGENT INFORMATION:
; NAME: Hand, J. Mark
; REGISTRATION NUMBER: 36,545
; REFERENCE/DOCKET NUMBER: 18361DA
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (908) 594-3905
; TELEFAX: (908) 594-4720
; INFORMATION FOR SEQ ID NO: 41:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 154 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
;
; US-08-586-039B-41

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Query Match 58.9%; Score 498.5; DB 3; Length 154;
Best Local Similarity 62.1%; Pred. NO. 3.2e-50;
Matches 95; Conservative 23; Mismatches 30; Indels 5; Gaps 2;

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Dd	1	MPVMRLFPCFLQLLAGLALPAVP	PQQWALSAGNSSEVVFPQEWGRS	YCRALER	LVD	60
Qy	57	IADENHPNEVSHIFSPCVLLSRCSGCGDEGLHCVALKTANITMQILKIPPNRDPH	S	SYVE		116
Dd	61	VVSEYPSEVEHMFSPCSVLLRCTGCCGDENLHCVPTETANTVMQLLKIRSGDRP-		SYVE		119
Qy	117	MTFSQDVLCECRPILETTKAERRKTKGKRKQSK				149
Dd	120	LTFSOHVRCERPLREXMKPERRRPKGRGKRR				152

RESULT 11
US-09-699-769-41
; Sequence 41, Application US/09699769
; Patent No. 6569434

; GENERAL INFORMATION:
 ; APPLICANT: Bayne, Marvin L.
 ; Thomas Jr., Kenneth A.
 ; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
 ; C SUBUNIT
 ; NUMBER OF SEQUENCES: 49
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Merck & Co., Inc.
 ; STREET: 126 E. Lincoln Avenue
 ; CITY: Rahway
 ;

STATE: New Jersey
COUNTRY: USA
ZIP: 07065-0900
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Microsoft Word 6
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/699,769
FILING DATE: 30-Oct-2000
CLASSIFICATION: <Unknown>
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/586,039
FILING DATE: 16-JAN-1996
APPLICATION NUMBER: 08/124,259
FILING DATE: 20-SEP-1993
APPLICATION NUMBER: 07/676,436
FILING DATE: 28-MAR-1991
ATTORNEY/AGENT INFORMATION:
NAME: Hand, J. Mark
REGISTRATION NUMBER: 36,545
REFERENCE/DOCKET NUMBER: 18361DB
TELECOMMUNICATION INFORMATION:
TELEPHONE: (732) 594-3905
TELEFAX: (732) 594-4720
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 154 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
SEQUENCE DESCRIPTION: SEQ ID NO: 41:
US-09-699-769-41

Query Match 58.9%; Score 498.5; DB 4; Length 154;
Best Local Similarity 62.1%; Pred. No. 3.2e-50;
Matches 95; Conservative 23; Mismatches 30; Indels 5; Gaps 2;
QY 1 MLAMKLTCTFLQVLAVHS---QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCTFLQVLAVHS---QGALSAGNNSTEMEVVPFNEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPNDRPHSYVE 116
Db 61 VVSEYPSVEHMFSPSCVLLSRCCTGCCGDEGLHCVPVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECPILKTKAERRKTKGKRKQSK 149
Db 120 LTFQHVRCCEPLREKMKPERRRPKGRGRRR 152

RESULT 12
US-09-214-982-32
Sequence 32, Application US/09214982
Patent No. 6828426
GENERAL INFORMATION:
APPLICANT: Hirata, Yuichi
APPLICANT: Nezu, Junichi
TITLE OF INVENTION: No. 6828426el VEGF-like Factor
FILE REFERENCE: 50026/014001
CURRENT APPLICATION NUMBER: US/09/214,982
CURRENT FILING DATE: 1999-01-14
EARLIER APPLICATION NUMBER: 8-185216 Japan
EARLIER FILING DATE: 1996-07-15
NUMBER OF SEQ ID NOS: 34
SOFTWARE: FastSEQ for Windows Version 4.0
SEQ ID NO 32
LENGTH: 170
TYPE: PRT
ORGANISM: Homo sapiens
US-09-214-982-32

Query Match 58.3%; Score 493.5; DB 4; Length 170;
Best Local Similarity 60.9%; Pred. No. 1.4e-49;
Matches 95; Conservative 23; Mismatches 33; Indels 5; Gaps 2;
QY 1 MLAMKLTCTFLQVLAVHS---QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCTFLQVLAVHS---QGALSAGNNSTEMEVVPFNEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPNDRPHSYVE 116
Db 61 VVSEYPSVEHMFSPSCVLLSRCCTGCCGDEGLHCVPVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECPILKTKAERRKTKGKRKQSKTPQ 152
Db 120 LTFQHVRCCEPLREKMKPERRRPKGRGRRR 155

RESULT 13
US-08-469-427A-14
Sequence 14, Application US/08469427A
Patent No. 5607918
GENERAL INFORMATION:
APPLICANT: Eriksson, Ulf
APPLICANT: Olofsson, Birgitta
APPLICANT: Alitalo, Kari
APPLICANT: Pajusola, Katri
TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
TITLE OF INVENTION: DNA CODING THEREFOR
NUMBER OF SEQUENCES: 17
CORRESPONDENCE ADDRESS:
ADDRESSEE: Evenson, McKeown, Edwards & Lenahan
STREET: 1200 G Street, N.W., Suite 700
CITY: Washington
STATE: DC
ZIP: 20005
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/469,427A
FILING DATE: 06-JUN-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/397,651
FILING DATE: 01-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Evans, Joseph D
REGISTRATION NUMBER: 26,269
REFERENCE/DOCKET NUMBER: 41979cp2
TELECOMMUNICATION INFORMATION:
TELEPHONE: (202) 628-8800
TELEFAX: (202) 628-8844
INFORMATION FOR SEQ ID NO: 14:
SEQUENCE CHARACTERISTICS:
LENGTH: 149 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
US-08-469-427A-14

Query Match 56.1%; Score 474.5; DB 1; Length 149;
Best Local Similarity 64.1%; Pred. No. 2e-47;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;
QY 1 MLAMKLTCTFLQVLAVHS---QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCTFLQVLAVHS---QGALSAGNNSTEMEVVPFNEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPNDRPHSYVE 116

Db 61 VVSEYPSEVHEMFSPSCVSLLRCTGCCGDENLHCVPVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCRCRPILETTKAER 138
Db 120 LTFQHVRCRCRPLREKMKPER 141

RESULT 14

US-08-039-297B-2
; Sequence 2, Application US/08039297B
; Patent No. 5919899
; GENERAL INFORMATION:
; APPLICANT: PERSICO, MARIA
; APPLICANT: MAGIONE, DOMENICO
; TITLE OF INVENTION: NUCLEOTIDE SEQUENCES CODING FOR A
; TITLE OF INVENTION: HUMAN
; TITLE OF INVENTION: PROTEIN WITH ANGIOGENESIS REGULATIVE PROPERTIES
; NUMBER OF SEQUENCES: 8
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: BEVERIDGE, DeGRANDI, WEILACHER & YOUNG,
; ADDRESSEE: L.L.P.
; STREET: 1850 M Street, N.W.
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20036

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/039,297B
FILING DATE: 19-APR-1993
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER: IT 48315-A90\
FILING DATE: 27-SEP-1990
ATTORNEY/AGENT INFORMATION:
NAME: Weilacher, Robert G
REGISTRATION NUMBER: 20,531

REFERENCE/DOCKET NUMBER: 48573
TELEPHONE: 202-659-2811
TELEFAX: 202-659-1462
TELEX: WUI64470

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 149 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: unknown

US-08-039-297B-2

Query Match 56.1%; Score 474.5; DB 2; Length 149;
Best Local Similarity 64.1%; Pred. No. 2e-47;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLFTCFLQVLAVHS-----QGALSAGNNSTEMEVVPPFQVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCLQLLAGLALPAVPPQQWALSAGNSSEVEVPPFQVWGRSYCRALERLVD 60

QY 57 IADEHPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPNRDPHSYVE 116
Db 61 VVSEYPSEVHEMFSPSCVSLLRCTGCCGDENLHCVPVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRCRPILETTKAER 138
Db 120 LTFQHVRCRCRPLREKMKPER 141

RESULT 15

US-08-569-063C-21
; Sequence 21, Application US/08569063C
; Patent No. 5928939
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: OLOFSSON, Birgitta
; APPLICANT: ALITALO, Kari
; APPLICANT: PAJUSOLA, Katri
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL GROWTH FACTOR-B AND
; TITLE OF INVENTION: DNA CODING THEREFOR
; NUMBER OF SEQUENCES: 23
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Evenson, McKeown, Edwards & Lenahan, P.L.L.C.
; STREET: 1200 G Street, N.W., Suite 700
; CITY: Washington
; STATE: DC
; COUNTRY: USA
; ZIP: 20005

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/569,063C
FILING DATE: 06-DEC-1995

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/469,427
FILING DATE: 06-JUN-1995
APPLICATION NUMBER: US 08/397,651
FILING DATE: 01-MAR-1995

ATTORNEY/AGENT INFORMATION:
NAME: EVANS, Joseph D
REGISTRATION NUMBER: 26,269
REFERENCE/DOCKET NUMBER: 1064/41979CP3
TELEPHONE: (202) 628-8800
TELEFAX: (202) 628-8844

INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 149 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein

US-08-569-063C-21

Query Match 56.1%; Score 474.5; DB 2; Length 149;
Best Local Similarity 64.1%; Pred. No. 2e-47;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLFTCFLQVLAVHS-----QGALSAGNNSTEMEVVPPFQVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCLQLLAGLALPAVPPQQWALSAGNSSEVEVPPFQVWGRSYCRALERLVD 60

QY 57 IADEHPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPNRDPHSYVE 116
Db 61 VVSEYPSEVHEMFSPSCVSLLRCTGCCGDENLHCVPVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRCRPILETTKAER 138
Db 120 LTFQHVRCRCRPLREKMKPER 141

Search completed: February 18, 2005, 04:42:03
Job time : 25 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: February 18, 2005, 04:38:31 ; Search time 132 Seconds
(without alignments)
391.698 Million cell updates/sec

Title: US-10-071-370A-4
Perfect score: 846
Sequence: 1 MLAMKLFTCFLQVLAVH.....RKTGKRKQSKTPQTEPHL 158

Scoring table: BLOSUM62
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Searched: 1380268 seqs, 327241040 residues

Total number of hits satisfying chosen parameters: 1380268

Minimum DB seq length: 0
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Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published Applications AA:*
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2: /cgn2_6/ptodata/2/pubpaa/PCT_NEW_PUB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB	ID	Description
1	846	100.0	158	14	US-10-071-370A-4	Sequence 4, Appli
2	740	87.5	138	14	US-10-071-370A-6	Sequence 6, Appli
3	499.5	59.0	170	9	US-09-852-209A-9	Sequence 9, Appli
4	499.5	59.0	170	14	US-10-131-600-9	Sequence 9, Appli
5	499.5	59.0	170	15	US-10-352-153-5	Sequence 5, Appli
6	499.5	59.0	170	15	US-10-303-997B-9	Sequence 9, Appli
7	499.5	59.0	170	15	US-10-439-337A-9	Sequence 9, Appli
8	486.5	57.5	180	17	US-10-868-577A-69	Sequence 69, Appli
9	474.5	56.1	149	9	US-09-795-006A-115	Sequence 115, App
10	474.5	56.1	149	14	US-10-201-386-55	Sequence 55, Appl
11	474.5	56.1	149	14	US-10-262-538-28	Sequence 28, Appl
12	474.5	56.1	149	14	US-10-021-660-102	Sequence 102, App
13	474.5	56.1	149	14	US-10-346-802-5	Sequence 5, Appli

14	474.5	56.1	149	15	US-10-116-275-226	Sequence 226, App
15	474.5	56.1	149	15	US-10-211-462-115	Sequence 115, App
16	450.5	53.3	221	15	US-10-440-464-128	Sequence 128, App
17	450.5	53.3	221	17	US-10-868-577A-15	Sequence 15, Appl
18	450.5	53.3	221	17	US-10-868-577A-47	Sequence 47, Appl
19	365.5	43.2	163	15	US-10-343-825A-15	Sequence 15, Appl
20	320.5	37.9	214	9	US-09-349-954A-22	Sequence 22, Appl
21	320.5	37.9	214	9	US-09-907-007-22	Sequence 22, Appl
22	320.5	37.9	214	15	US-10-673-708-22	Sequence 22, Appl
23	315.5	37.3	162	10	US-09-832-355A-60	Sequence 60, Appl
24	315	37.2	171	9	US-09-812-133-2	Sequence 2, Appli
25	315	37.2	181	17	US-10-868-577A-14	Sequence 14, Appl
26	315	37.2	188	14	US-10-293-157-28	Sequence 28, Appl
27	315	37.2	213	14	US-10-268-447-8	Sequence 8, Appli
28	315	37.2	215	9	US-09-244-694-3	Sequence 3, Appli
29	315	37.2	215	15	US-10-418-529-8	Sequence 8, Appli
30	315	37.2	215	15	US-10-370-291-6	Sequence 6, Appli
31	315	37.2	215	17	US-10-615-343-15	Sequence 15, Appl
32	315	37.2	215	17	US-10-868-577A-10	Sequence 10, Appl
33	315	37.2	232	9	US-09-795-006A-147	Sequence 147, App
34	315	37.2	232	10	US-09-935-726-7	Sequence 7, Appli
35	315	37.2	232	13	US-10-127-551-5	Sequence 5, Appli
36	315	37.2	232	13	US-10-060-523-9	Sequence 9, Appli
37	315	37.2	232	14	US-10-084-488-7	Sequence 7, Appli
38	315	37.2	232	14	US-10-268-447-10	Sequence 10, Appl
39	315	37.2	232	14	US-10-120-398-7	Sequence 7, Appli
40	315	37.2	232	14	US-10-120-414-7	Sequence 7, Appli
41	315	37.2	232	14	US-10-120-377-7	Sequence 7, Appli
42	315	37.2	232	15	US-10-370-291-8	Sequence 8, Appli
43	315	37.2	232	16	US-10-696-002-7	Sequence 7, Appli
44	315	37.2	232	17	US-10-615-343-20	Sequence 20, Appl
45	315	37.2	232	17	US-10-868-577A-5	Sequence 5, Appli

ALIGNMENTS

RESULT 1
US-10-071-370A-4
; Sequence 4, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Conn, Gregory L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; FILE OF INVENTION: II
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 4
; LENGTH: 158
; TYPE: PRT
; ORGANISM: rat
US-10-071-370A-4

Query Match 100.0%; Score 846; DB 14; Length 158;
Best Local Similarity 100.0%; Pred. NO. 3.8e-82;
Matches 158; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLAMKLFTCFLQVLAVHSQALSAGNNSTEMEVPFNEVWGRSYCRPMEKLVYIADE 60

Db 1 MLAMKLFCTCFLQVLAVHSQGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVYIAD 60
QY 61 HPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSHYVEMTFS 120
Db 61 HPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSHYVEMTFS 120
QY 121 QDVLCECRPILETTKAERRKTGKRKQSKTPQTEEPHL 158
Db 121 QDVLCECRPILETTKAERRKTGKRKQSKTPQTEEPHL 158

RESULT 2
US-10-071-370A-6
; Sequence 6, Application US/10071370A
; Publication No. US20030045471A1
; GENERAL INFORMATION:
; APPLICANT: Bayne, Marvin L.
; APPLICANT: Conn, Gregory L.
; APPLICANT: Thomas, Jr., Kenneth A.
; TITLE OF INVENTION: VASCULAR ENDOTHELIAL CELL GROWTH FACTOR
; FILE REFERENCE: 18199CB
; CURRENT APPLICATION NUMBER: US/10/071,370A
; CURRENT FILING DATE: 2002-02-08
; PRIOR APPLICATION NUMBER: 09/326,879
; PRIOR FILING DATE: 1999-06-07
; PRIOR APPLICATION NUMBER: 09/038,199
; PRIOR FILING DATE: 1998-03-10
; PRIOR APPLICATION NUMBER: 08/299,185
; PRIOR FILING DATE: 1994-08-31
; PRIOR APPLICATION NUMBER: 08/000,834
; PRIOR FILING DATE: 1993-01-05
; PRIOR APPLICATION NUMBER: 07/586,638
; PRIOR FILING DATE: 1990-09-21
; NUMBER OF SEQ ID NOS: 29
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 6
; LENGTH: 138
; TYPE: PRT
; ORGANISM: rat

US-10-071-370A-6
Query Match 87.5%; Score 740; DB 14; Length 138;
Best Local Similarity 100.0%; Pred. No. 6.7e-71;
Matches 138; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MLAMKLFCTCFLQVLAVHSQGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVYIAD 60
Db 1 MLAMKLFCTCFLQVLAVHSQGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVYIAD 60
QY 61 HPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSHYVEMTFS 120
Db 61 HPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSHYVEMTFS 120
QY 121 QDVLCECRPILETTKAER 138
Db 121 QDVLCECRPILETTKAER 138

RESULT 3
US-09-852-209A-9
; Sequence 9, Application US/09852209A
; Patent No. US20020164687A1
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: AASE, Karin
; APPLICANT: LEE, Xuri
; APPLICANT: PONTEN, Annica
; APPLICANT: UUTELA, Marko
; APPLICANT: ALITALO, Kari
; APPLICANT: OESTMAN, Arne
; APPLICANT: HELDIN, Carl-Henrik

; APPLICANT: BETSHOLTZ, Christer
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR C, DNA CODING
; FILE REFERENCE: 09-410349-Eriksson et al-1064-44740
; CURRENT APPLICATION NUMBER: US/09/852,209A
; CURRENT FILING DATE: 2001-05-10
; PRIOR APPLICATION NUMBER: 09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 60/110,749
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: 60/144,022
; PRIOR FILING DATE: 1999-07-15
; NUMBER OF SEQ ID NOS: 39
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-09-852-209A-9

Query Match 59.0%; Score 499.5; DB 9; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;
QY 1 MLAMKLFCTCFLQVLAVHS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPFCFLQLLAGLALPAVPPQQWALSAGNSSEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPSCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSHYVE 116
Db 61 VVSEYPSEVEHMFSPSCVSLLRCTGCCGDEDLHCVPVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECRPILETTKAERRKTGKRKQSKTPQ 152
Db 120 LTFSQHVRCECRPLREKMKPERRRPKGRGRRRRENO 155

RESULT 4
US-10-131-600-9
; Sequence 9, Application US/10131600
; Publication No. US20030082670A1
; GENERAL INFORMATION:
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: AASE, Karin
; APPLICANT: LEE, Xuri
; APPLICANT: PONTEN, Annica
; APPLICANT: UUTELA, Marko
; APPLICANT: ALITALO, Kari
; APPLICANT: OESTMAN, Arne
; APPLICANT: HELDIN, Carl-Henrik
; APPLICANT: BETSHOLTZ, Christer
; TITLE OF INVENTION: PLATELET-DERIVED GROWTH FACTOR C, DNA CODING
; FILE REFERENCE: 09-410349-Eriksson et al-1064-44740
; CURRENT APPLICATION NUMBER: US/10/131,600
; CURRENT FILING DATE: 2002-04-25
; PRIOR APPLICATION NUMBER: US/09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: 60/108,109
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: 60/110,749
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: 60/144,022
; PRIOR FILING DATE: 1999-07-15
; NUMBER OF SEQ ID NOS: 39

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; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-131-600-9

Query Match      59.0%; Score 499.5; DB 14; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

QY 1 MLAMKLTCTFLOVLAVHS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
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Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60

QY 57 IADEHPNEVSHIFSPSCVLLSRCSGCCGDEGLHCVALKTANITMQILKIPNRPDPSYVE 116
   : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 61 VVSEYPSEVEHMFSPSCVLLRCTGCCGDEDLHCVPVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAERRKTKGKRKQSKTPQ 152
   : | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 120 LTFSQHVRCRPLREKMKPERRRPKGRKRRRENQ 155

RESULT 5
US-10-352-153-5
; Sequence 5, Application US/10352153
; Publication No. US20030211101A1
; GENERAL INFORMATION:
; APPLICANT: Wise, Lyn M
; APPLICANT: Mercer, Andrew A
; APPLICANT: Savory, Loreen J
; APPLICANT: Fleming, Stephen B
; APPLICANT: Stackler, Stephen
; TITLE OF INVENTION: VASCULAR ENOTHELIAL GROWTH FACTOR-LIKE PROTEIN FROM ORF
; TITLE OF INVENTION: VIRUS N22 BINDS AND ACTIVATES MAMMALIAN VEGF
; TITLE OF INVENTION: RECEPTOR-2, AND USES THEREOF
; FILE REFERENCE: Sequence Listing for 09/431,833
; CURRENT APPLICATION NUMBER: US/10/352,153
; CURRENT FILING DATE: 2003-01-28
; PRIOR APPLICATION NUMBER: US/09/431,888A
; PRIOR FILING DATE: 1999-11-02
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/106,689
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-02
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 60/106,800
; PRIOR FILING DATE: EARLIER FILING DATE: 1998-11-03
; NUMBER OF SEQ ID NOS: 11
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 5
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-352-153-5

Query Match      59.0%; Score 499.5; DB 15; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

QY 1 MLAMKLTCTFLOVLAVHS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60

QY 57 IADEHPNEVSHIFSPSCVLLSRCSGCCGDEGLHCVALKTANITMQILKIPNRPDPSYVE 116
   : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 61 VVSEYPSEVEHMFSPSCVLLRCTGCCGDEDLHCVPVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAERRKTKGKRKQSKTPQ 152
   : | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 120 LTFSQHVRCRPLREKMKPERRRPKGRKRRRENQ 155

RESULT 6
US-10-303-997B-9
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; Sequence 9, Application US/10303997B
; Publication No. US20030211994A1
; GENERAL INFORMATION:
; APPLICANT: Li, Xuri
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: CARMELIET, Peter
; APPLICANT: COLLUM, Desire
; TITLE OF INVENTION: COMPOSITION AND METHOD FOR MODULATING VASCULOGENESIS AND ANGIOGE
; FILE REFERENCE: 029065.44740C3
; CURRENT APPLICATION NUMBER: US/10/303,997B
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: US 09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: US 60/102,461
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: US 60/108,109
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/110,749
; PRIOR FILING DATE: 1998-12-03
; PRIOR APPLICATION NUMBER: US 60/113,002
; PRIOR FILING DATE: 1998-12-18
; PRIOR APPLICATION NUMBER: US 60/135,426
; PRIOR FILING DATE: 1999-05-21
; PRIOR APPLICATION NUMBER: US 60/144,022
; PRIOR FILING DATE: 1999-07-15
; NUMBER OF SEQ ID NOS: 40
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 9
; LENGTH: 170
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-303-997B-9

Query Match      59.0%; Score 499.5; DB 15; Length 170;
Best Local Similarity 61.5%; Pred. No. 4.2e-45;
Matches 96; Conservative 23; Mismatches 32; Indels 5; Gaps 2;

QY 1 MLAMKLTCTFLOVLAVHS-----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
   | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60

QY 57 IADEHPNEVSHIFSPSCVLLSRCSGCCGDEGLHCVALKTANITMQILKIPNRPDPSYVE 116
   : | : | : | : | : | : | : | : | : | : | : | : | : | : | : |
Db 61 VVSEYPSEVEHMFSPSCVLLRCTGCCGDEDLHCVPVETANVTMQLLKIRSGDRP-SYVE 119

QY 117 MTFSDVLCRPILETTKAERRKTKGKRKQSKTPQ 152
   : | | | | | | | | | | | | | | | | | | | | | | | | | | |
Db 120 LTFSQHVRCRPLREKMKPERRRPKGRKRRRENQ 155

RESULT 7
US-10-439-337A-9
; Sequence 9, Application US/10439337A
; Publication No. US20040053837A1
; GENERAL INFORMATION:
; APPLICANT: Li, Xuri
; APPLICANT: ERIKSSON, Ulf
; APPLICANT: CARMELIET, Peter
; APPLICANT: COLLUM, Desire
; TITLE OF INVENTION: COMPOSITION AND METHOD FOR MODULATING VASCULOGENESIS AND
; FILE REFERENCE: 029065.44740C4
; CURRENT APPLICATION NUMBER: US/10/439,337A
; CURRENT FILING DATE: 2003-05-16
; PRIOR APPLICATION NUMBER: US 10/303,997
; PRIOR FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: US 09/410,349
; PRIOR FILING DATE: 1999-09-30
; PRIOR APPLICATION NUMBER: US 60/102,461
; PRIOR FILING DATE: 1998-09-30
; PRIOR APPLICATION NUMBER: US 60/108,109
; PRIOR FILING DATE: 1998-11-12
; PRIOR APPLICATION NUMBER: US 60/110,749
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; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; OTHER INFORMATION: Human PIGF
US-10-201-386-55

Query Match      56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLTCTCFLQVLAVHS----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYPSEVEHMFSPCVSLLRCTGCCGDNLHCVVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141

RESULT 11
US-10-262-538-28
; Sequence 28, Application US/10262538
; Publication No. US20030113324A1
; GENERAL INFORMATION:
; APPLICANT: Alitalo et al
; TITLE OF INVENTION: NEUROPILIN/VEGF-C/VEGFR-3 MATERIALS AND METHODS
; FILE REFERENCE: 28967/37564
; CURRENT APPLICATION NUMBER: US/10/262,538
; CURRENT FILING DATE: 2002-09-30
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 28
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-262-538-28

Query Match      56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLTCTCFLQVLAVHS----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYPSEVEHMFSPCVSLLRCTGCCGDNLHCVVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141

RESULT 12
US-10-021-660-102
; Sequence 102, Application US/10021660
; Publication No. US20030152926A1
; GENERAL INFORMATION:
; APPLICANT: Murray, Richard
; APPLICANT: Glynn, Richard
; APPLICANT: Watson, Susan R.
; APPLICANT: EOS Biotechnology, Inc.
; TITLE OF INVENTION: No. US20030152926A1el Methods of Diagnosis of Angiogenesis,
; TITLE OF INVENTION: Compositions and Methods of Screening for Angiogenesis
; FILE REFERENCE: 018501-000710US
; CURRENT APPLICATION NUMBER: US/10/021,660
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; CURRENT FILING DATE: 2001-12-06
; PRIOR APPLICATION NUMBER: US/09/784,356
; PRIOR FILING DATE: 2001-02-14
; PRIOR APPLICATION NUMBER: US 09/637,977
; PRIOR FILING DATE: 2000-08-11
; NUMBER OF SEQ ID NOS: 135
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 102
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-021-660-102

Query Match      56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLTCTCFLQVLAVHS----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYPSEVEHMFSPCVSLLRCTGCCGDNLHCVVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141

RESULT 13
US-10-346-802-5
; Sequence 5, Application US/10346802
; Publication No. US20030166873A1
; GENERAL INFORMATION:
; APPLICANT: Lee, James
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: VEGF-RELATED PROTEIN
; FILE REFERENCE: P0963R1D1
; CURRENT APPLICATION NUMBER: US/10/346,802
; CURRENT FILING DATE: 2003-01-17
; PRIOR APPLICATION NUMBER: US/09/313,299B
; PRIOR FILING DATE: 1999-05-17
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 08/706,054
; PRIOR FILING DATE: EARLIER FILING DATE: 1996-08-30
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/003,491
; PRIOR FILING DATE: EARLIER FILING DATE: 1995-09-08
; NUMBER OF SEQ ID NOS: 12
; SEQ ID NO 5
; LENGTH: 149
; TYPE: PRT
; ORGANISM: Human
; FEATURE:
; NAME/KEY: Human
; LOCATION: 1-149
; OTHER INFORMATION: Sequence source: PIGF-131
US-10-346-802-5

Query Match      56.1%; Score 474.5; DB 14; Length 149;
Best Local Similarity 64.1%; Pred. No. 1.7e-42;
Matches 91; Conservative 19; Mismatches 27; Indels 5; Gaps 2;

QY 1 MLAMKLTCTCFLQVLAVHS----QGALSAGNNSTEMEVVPFNEVWGRSYCRPMEKLVY 56
Db 1 MPVMRLFPCFLQLLAGLALPAVPPQQWALSAGNSSEVEVVPFQEVWGRSYCRALERLVD 60
QY 57 IADEHPNEVSHIFSPCVLLSRCSCGCCGDEGLHCVALKTANITMQILKIPPNRDPHSYVE 116
Db 61 VVSEYPSEVEHMFSPCVSLLRCTGCCGDNLHCVVETANVTMQLLKIRSGDRP-SYVE 119
QY 117 MTFSDVLCCECRPILETTKAER 138
Db 120 LTFSQHVRCECRPLREKMKPER 141
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